

Kordsa Investor Presentation

Nov, 2020

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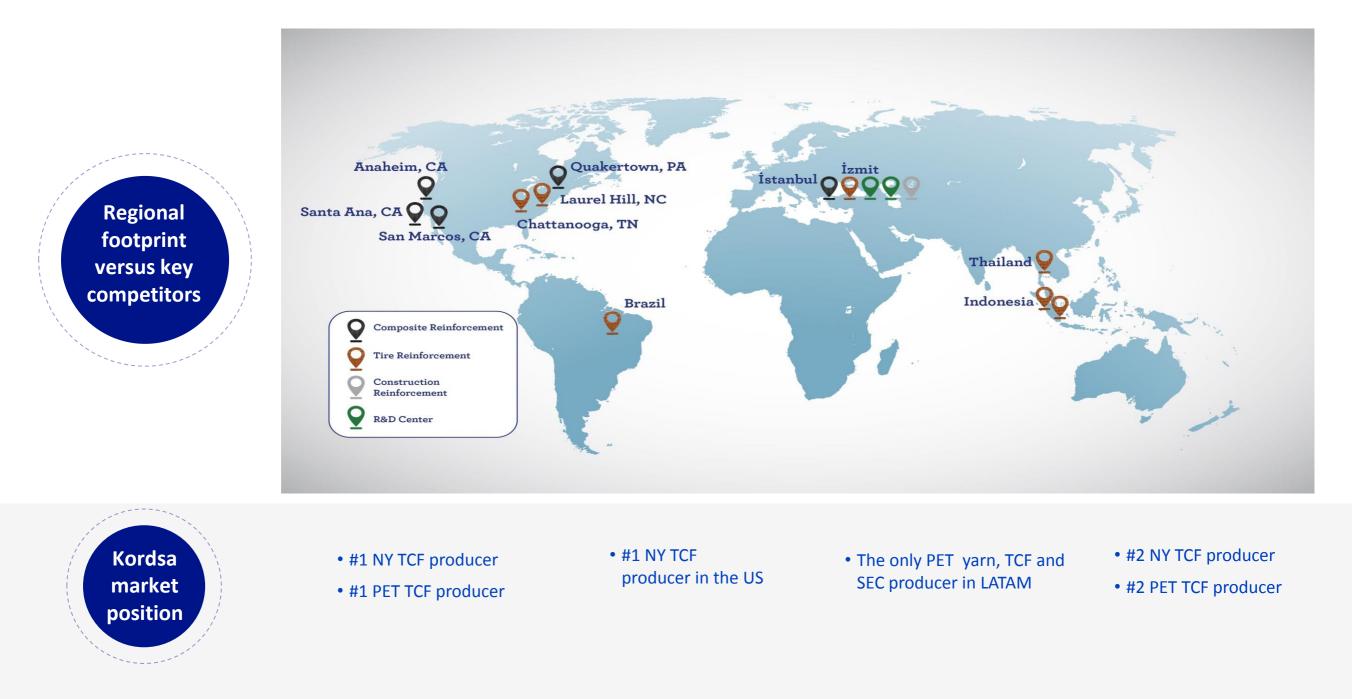
Global Footprint



WE REINFORCE LIFE

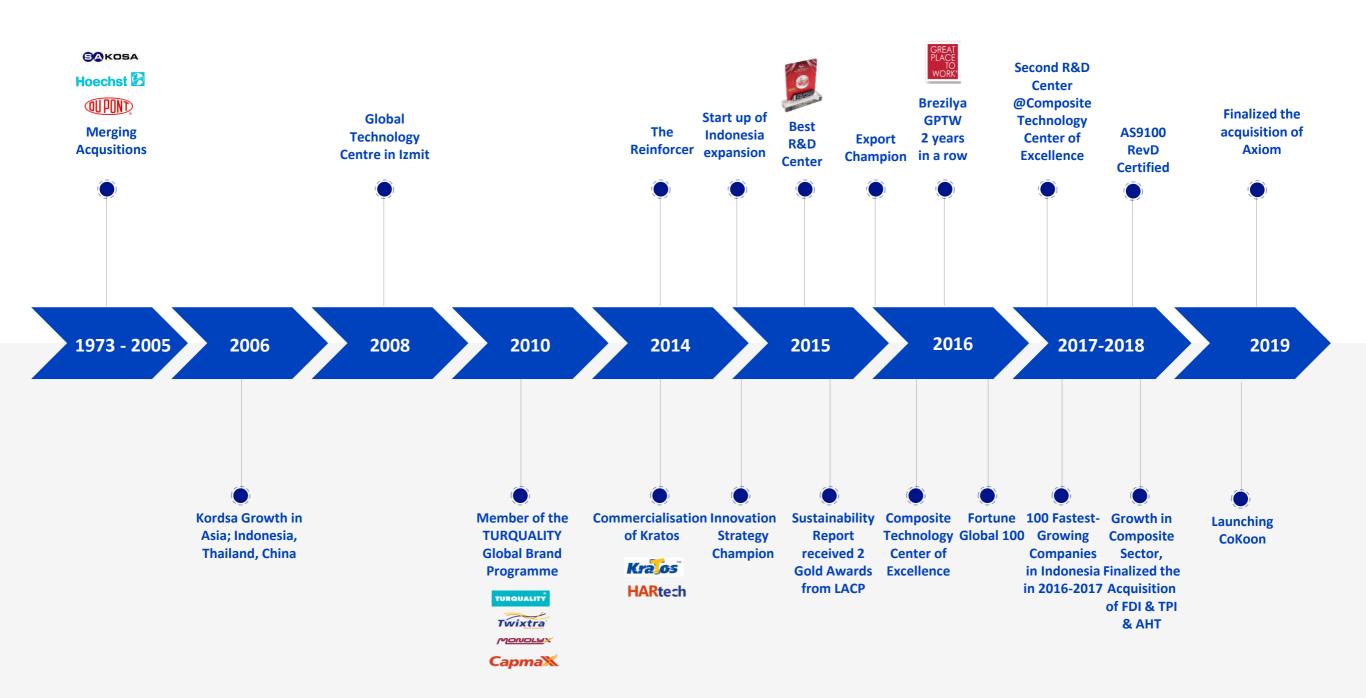


Global Footprint

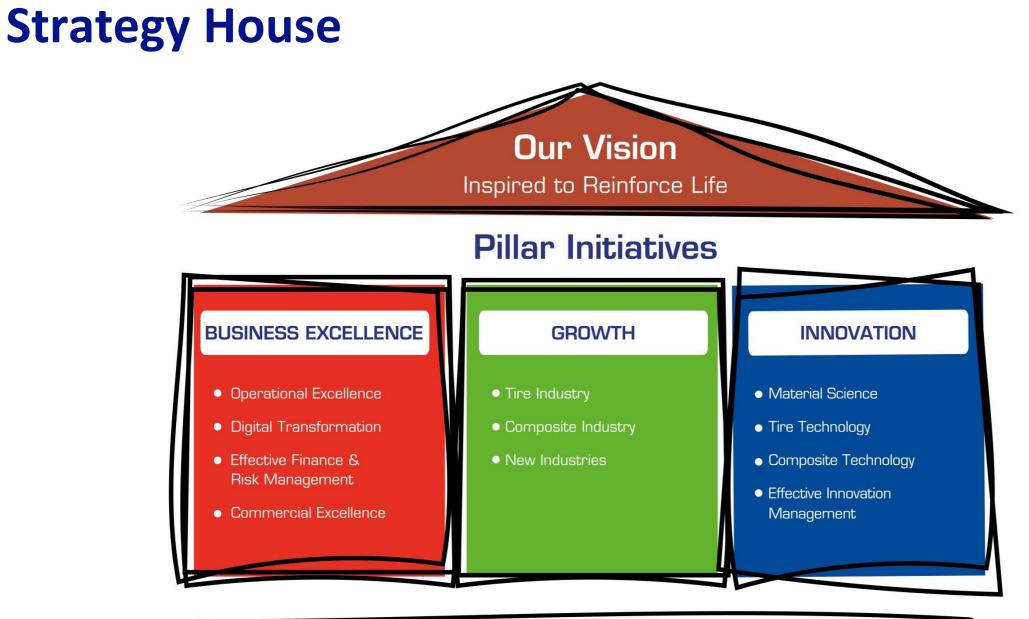




Milestones







	PEOPLE	
 Talent Management 	 Motivation 	 Empowerment

SHE Ethics Customer Focused Courage	Passion	Collaboration	Continuous Improvement
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Kordsa in Brief

	Tire cord fabrics ("TCF") Next	generation fabrics	Comp	oosite	Constr	uction
Description	 Nylon and polyester based tire reinforcement fibers and fabrics for radial and bias tires Global #1 by revenue/ #2 by capacity @ NY66 TCF Global #2 by revenue / #3 by capacity @PET TCF 		e reinforcement rials for green tires performance ofilaments n Products with cinol Formaldehyde Dipping y engineered hybrid with superior erties	 Carbon fiber, aramid, hybrid fabrics, and pre- pregs Production technologies for composite materials High value added thermoplastic and thermoset resins 		Macro and micro fibers for concrete reinforcement	
End markets			A A A A A A A A A A A A A A A A A A A	and			
	BRIDGESTONE	Ontinental S	GOOD [#] YEAR	() BOEING	₩ 70F4\$	AKÇANSA	ÇİM <mark>ŞA</mark>
Selected end-market participants	A better way forward	IIRELLI	SUMITOMO	AIRBUS	Ford	Votorantim	
	<i>«Напкоок</i>	УОКОНАМА	(HENG SHIN TIRE-				



Kordsa Investment Highlights





Must Win Battles

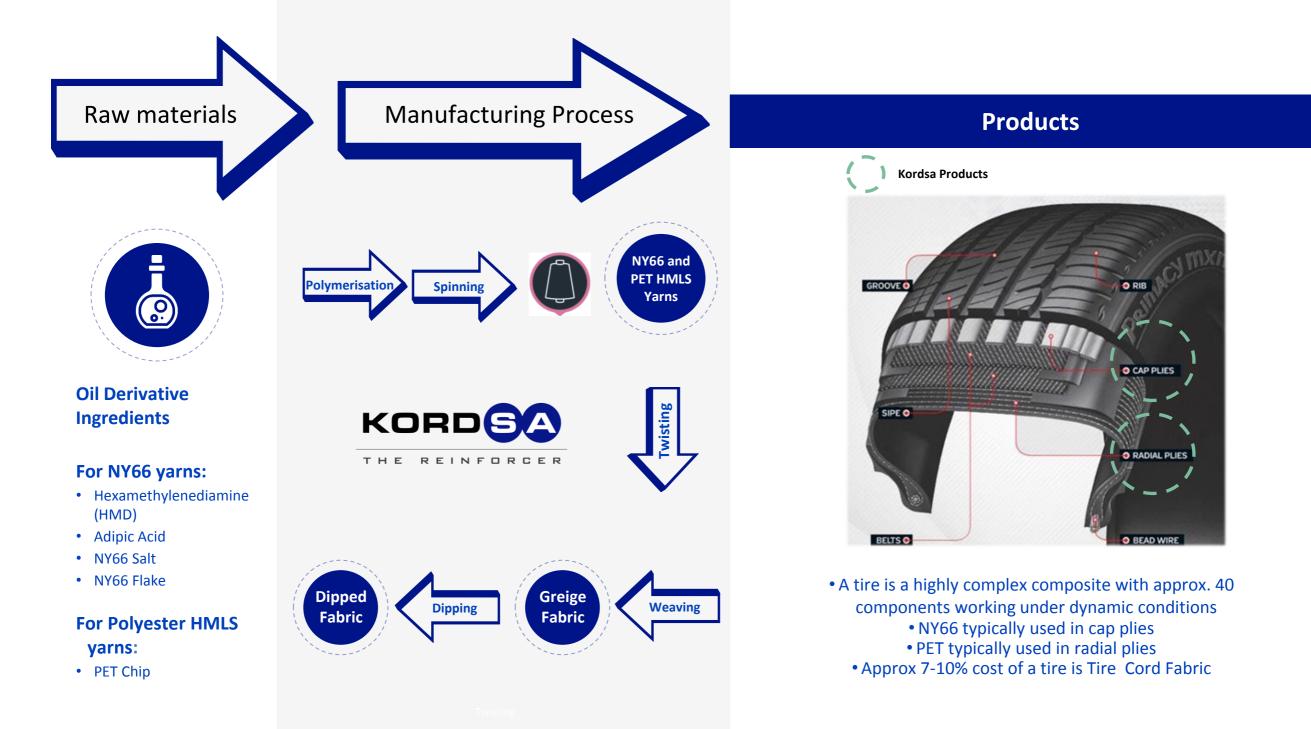




- a. Operational Excellence : Safe and reliable operations, competitive cost
- Digital Transformation: Data analytics and Artificial
 Intelligence, Robotics and Automations, Cybersecurity
- c. Effective Finance & Risk Management
- d. Commercial Excellence
- a. Growth in Tire Industry: Improve approved product base
- Growth in Composite Industry: Realization of growth business plan for composites, increase market penetration speed via acquisitions
- c. Growth in New Industries:
- a. Innovation in Material Science
- b. Innovation in Tire Technology
- c. Innovation in Composite Technology
- d. Effective Innovation Management



Overview of The Tire Cord Fabric Value Chain

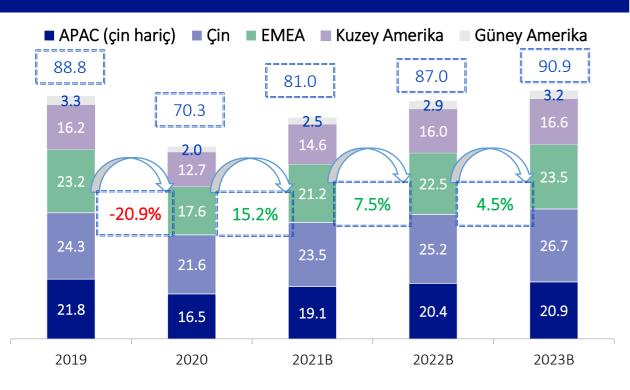


Kordsa fabrics are developed for specific requirements and are custom made

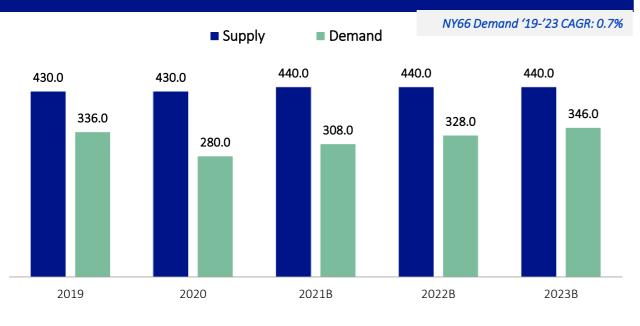


Market Dynamics - Tire

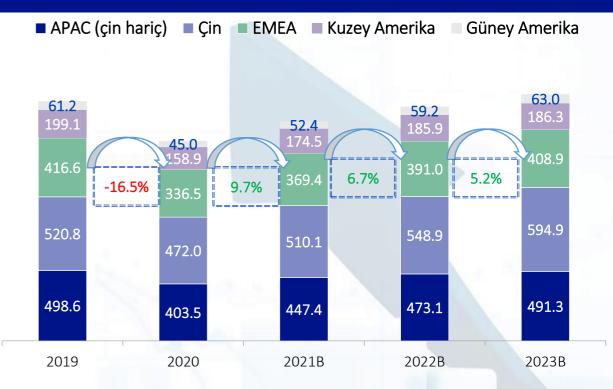
Global Automotive Market (Munits)



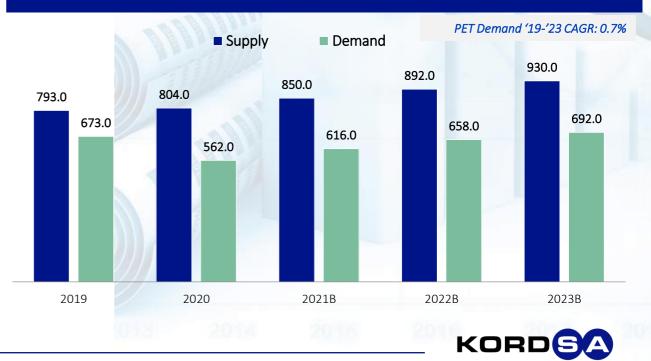
Tire Reinforcement Market (NY6.6-ktons)



Global Tire Market (Munits)



Tire Reinforcement Market (PET-ktons)

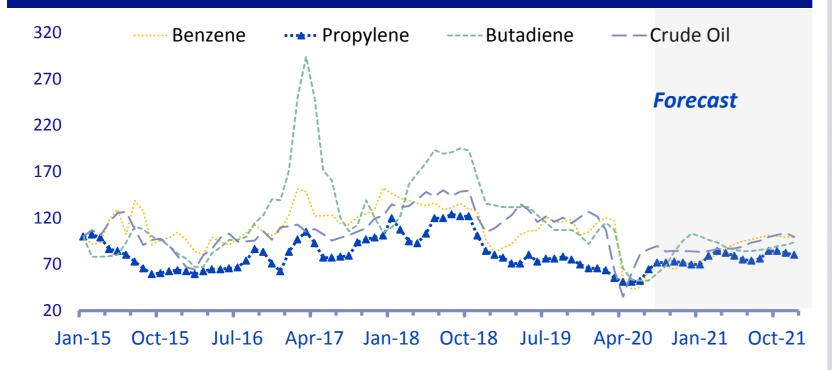


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RM Price Drivers - Tire

NY Raw Material Trend (Indexed)



PET Raw Material Trend (Indexed)

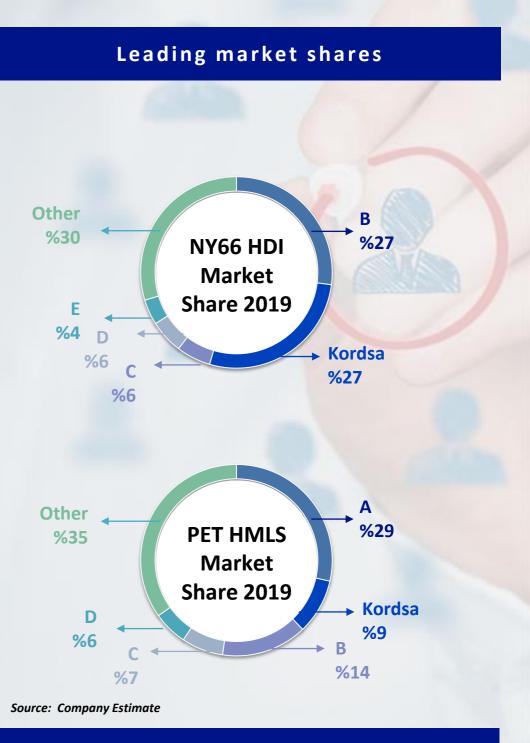


- Butadiene: Despite the gradual improvement of butadiene demand, consumption is still at a comparably low level compared to previous years. Butadiene prices are trending higher as inventory restocking the chain and fundamental demand is stronger than it was.
- Propylene: Outages associated with Hurricane Laura for steam crackers continued to incrementally lower propylene production.
- The PET sector has felt growing pressure from a continued inventory build, but preliminary outage plans known at this point indicate that production may start trending lower in the first week of October at the earliest.



Market Leadership Based on Longstanding Strategic Partner Status with All Global Tire Players

Nature of customer relationship as key barrier to entry						
Length of relationship	Typical length of approval period ^(a)	Co-development projects				
Since 1986	~ 5 years	\checkmark				
Since 1995	~ 5 years	✓				
Since 1973	~ 3 years	\checkmark				
Since 1985	~ 2 years	\checkmark				
Since 1973	~ 3 years	\checkmark				
Since 1987	~ 2 years	\checkmark				
	Length of relationshipSince 1986Since 1995Since 1973Since 1985Since 1973	Length of relationshipTypical length of approval period(a)Since 1986~ 5 yearsSince 1995~ 5 yearsSince 1973~ 3 yearsSince 1985~ 2 yearsSince 1973~ 3 years				

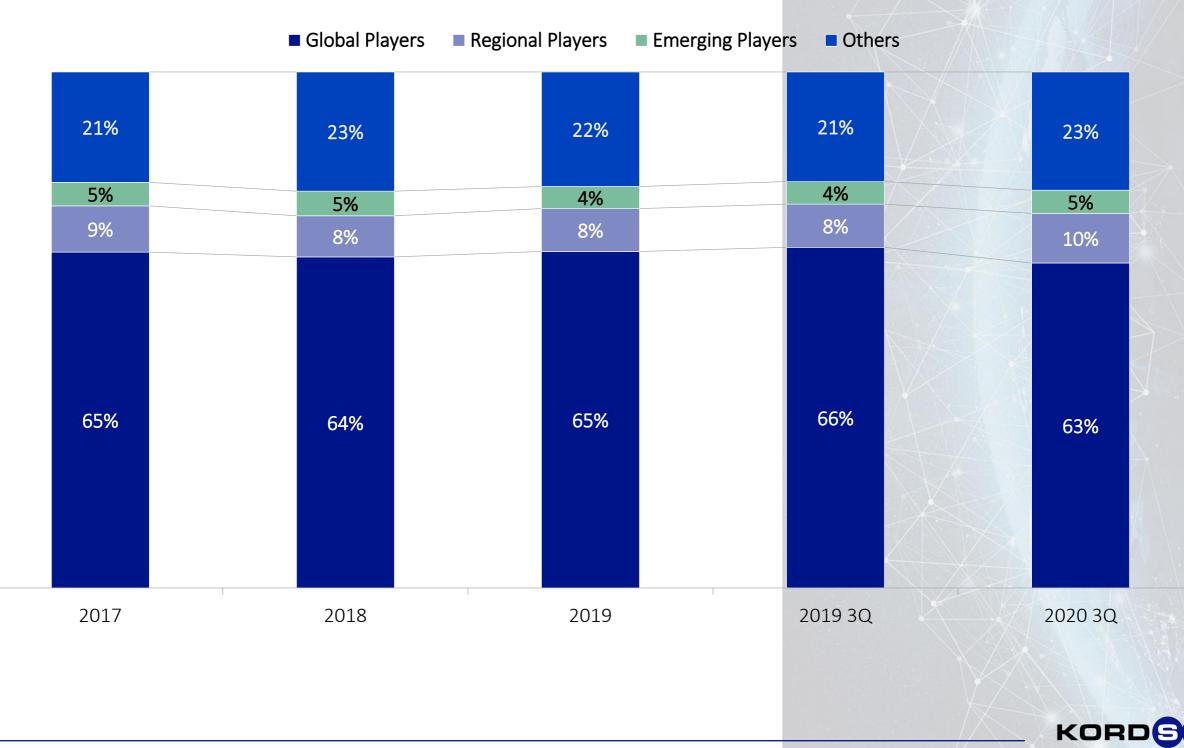


(a) For a new supplier

Strong barriers to entry for new comers



Capitalize on Global Footprint and Entrenched Supplier Status with All Key Tire Manufacturers -Segmental Progress



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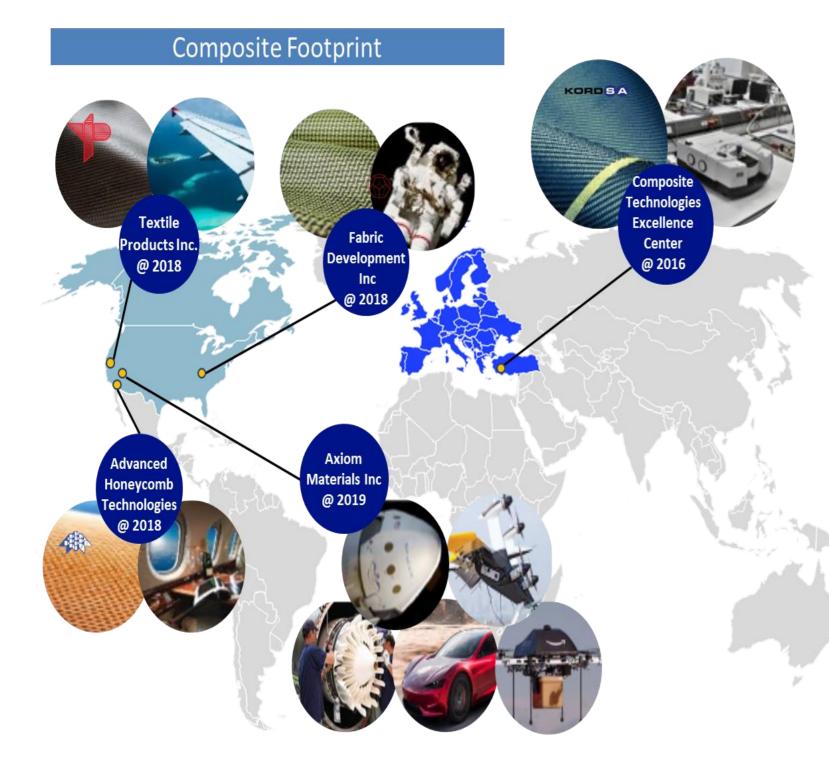
Overview of The Composites Value Chain



Kordsa fabrics and prepregs offer cutting edge solutions for aerospace & automotive markets

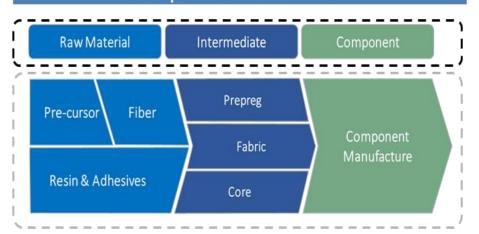


Overview of The Composites Value Chain



* 2019 Full year performance of entities regardless of joining time to Kordsa

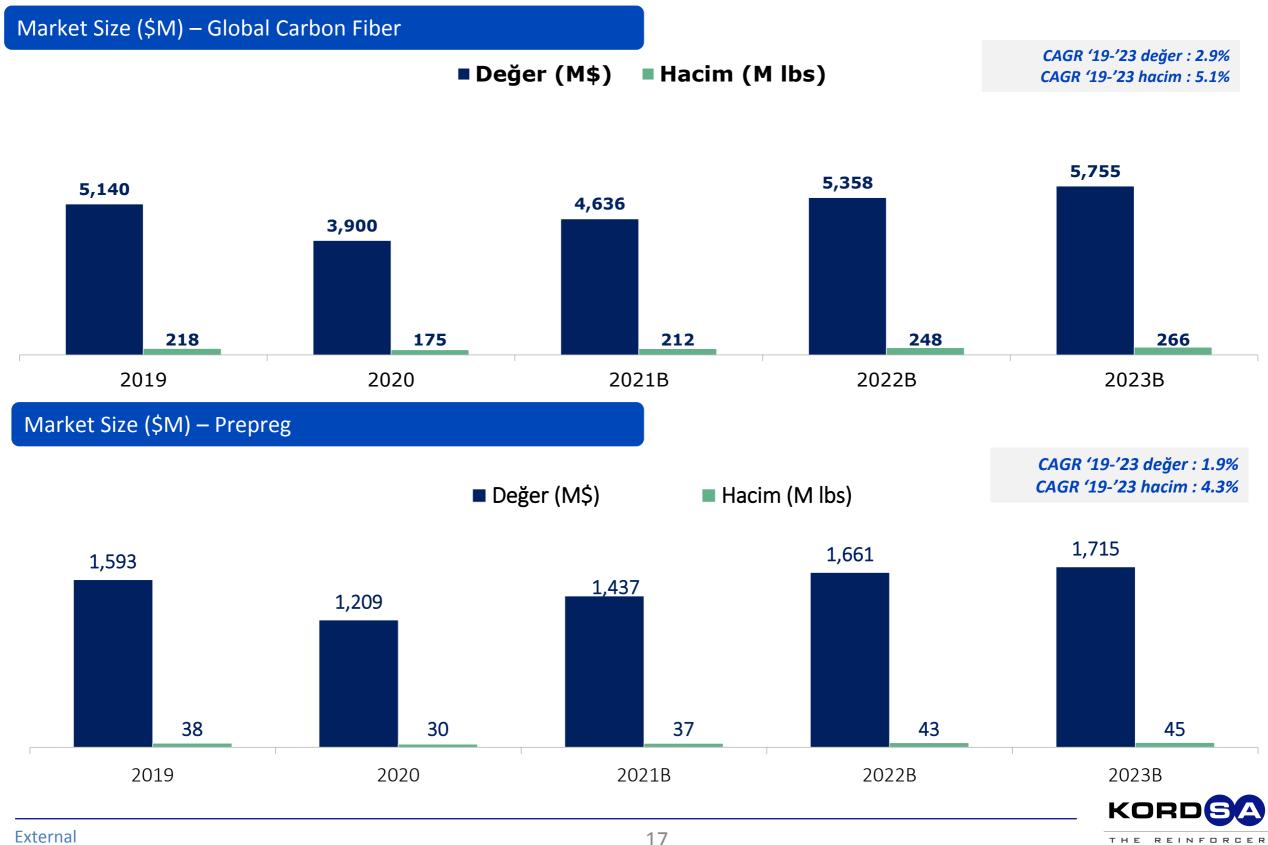
Composite Value Chain



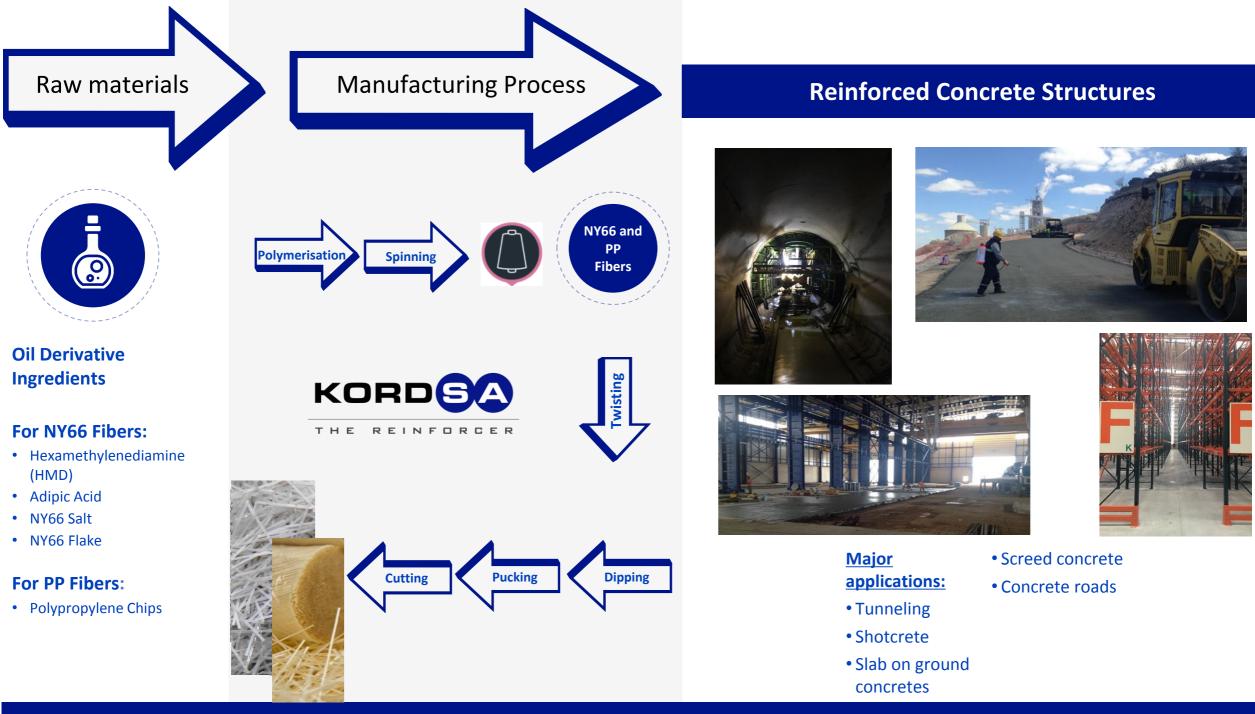
- Composite use in aerospace & automotive is increasing, due to improved material properties and weight savings over conventional materials.
- Total composite investment accounts aprox. 310M USD
- Potential M&A targets are always under consideration.
- Specialization areas:
 - Fabric Development Inc and Textile Products Inc: Fabric Production
 - Axiom Materials Inc.: Prepreg Production
 - Advanced Honeycomb Technologies: Core Production



Market Dynamics – Composite



Overview of The Construction Reinforcement Value Chain



Kordsa's Kratos Fiber Reinforcement are applied in Superstructure & Infrastructure Solutions



Growth Opportunities: Construction

Construction Reinforcement







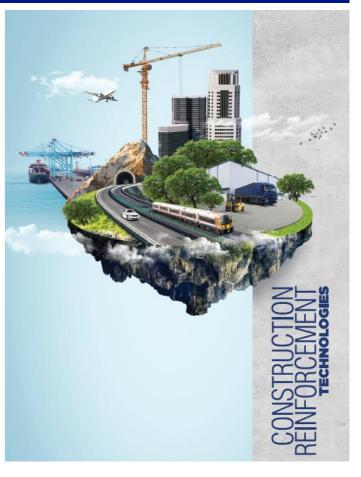
Samsun 2nd and 3rd Stage Light Railway Track Slab (Non- Conductivity Concrete Reinforcement) *KraTos Macro Reinforcement*



3rd Bosphorus Bridge Toll Booths and Electronic Pass Areas (Non-Conductivity Concrete Reinforcement) *KraTos Macro Reinforcement*



Asyaport Tekirdağ Port *KraTos Macro Reinforcement*





- KraTos Macro & Micro Synthetic Fibers are approved and applied in over 50 significant superstructure, industrial and infrastructure reference projects.
- Non-conductivity concrete reinforcement applications with KraTos Synthetic Fiber Reinforcements are approved in significant government-funded infrastructure projects.
- Kordsa İzmit Plant, R&D Concrete Lab technical and test equipment capabilities have increased. Technical Project Report service will be available for infrastructure projects.



We have launched our new Polypropylene Monofilament Fiber Reinforcement production line.

Let's check our latest post!

Discover \rightarrow



ament Fib

ine at İzmit plant started its

July 2018

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Update on 3Q 2020 Results

Key Financials							
	TL Financials (MTL)			USD Financials (MUSD)			
	3Q 2019	3Q 2020	Δ	3Q 2019	3Q 2020	Δ	
Sales	3,871	3,086	-20.3%	688	460	-33.1%	
Gross Profit	760	509	- 33. 1%	135	76	-43.8%	
Gross Margin (%)	19.6%	16.5%	-4 pts'	19.6%	16.5%	-4 pts'	
OPEX (%)	8.5%	11.4%	3 pts'	8.5%	11.4%	3 pts'	
Operating Profit	473	264	-44.2%	84	39	-53.2%	
Operating Profit Margin (%)	12.2%	8.5%	-3 pts'	12.2%	8.5%	-3 pts'	
EBITDA*	583	364	-37.5%	103	54	-47.6%	
EBITDA* Margin (%)	15.0%	11.8%	-3 pts'	15.0%	11.8%	-3 pts'	
Net Income	301	94	-68.7%	53	14	-73.7%	
Effective Tax Rate (%)	19.7%	-0.4%	-20 pts'	19.7%	-0.4%	-20 pts'	
Net Income (%)	7.8%	3.0%	-5 pts'	7.8%	3.0%	-5 pts'	
EPS (TL/100 shares)	1.38	0.48	-65.1%	0.25	0.07	-70.7%	

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* EBITDA Calculation: Gross Margin-OPEX+Dept & Amort

Kordsa continues to perform well based on its value strategy

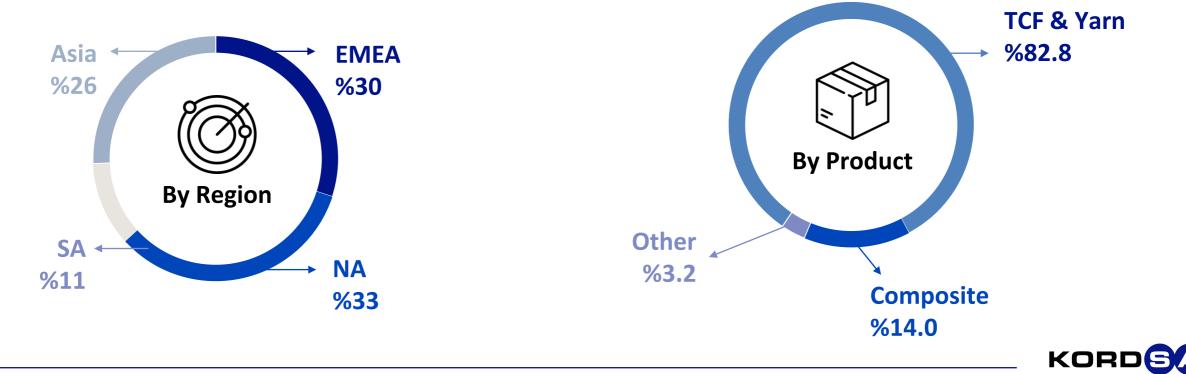
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Segment Reporting

Sep'20 Revenue Split



Sep'19 Revenue Split



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Well – Positioned to Enable Volume Growth

Comments

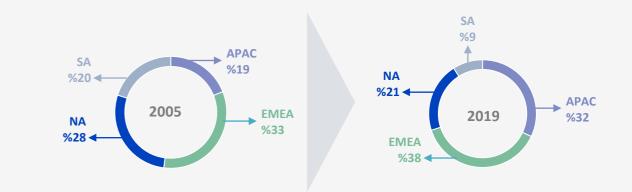
- Fabric form contributes the highest value add
- Disciplined approach to optimizing footprint
- 2015 investment in Indonesia has increased polyester tire cord fabric capacity by 18 ktons
- Enables regional growth in technology-advantaged PET segment with global and emerging customers
- Further investment in PET HMLS for new generation yarns
 - In TR for 6-6.5 ktons completed in 1H 2019.
 - In Indo for 6,5 ktons completed in Jan-2018.

Light Vehicle Tire manufacturing market evolution



Kordsa volume development(a) 2006 2016 2017 2018 2019 100 146 156 165 158

Kordsa regional capacity development

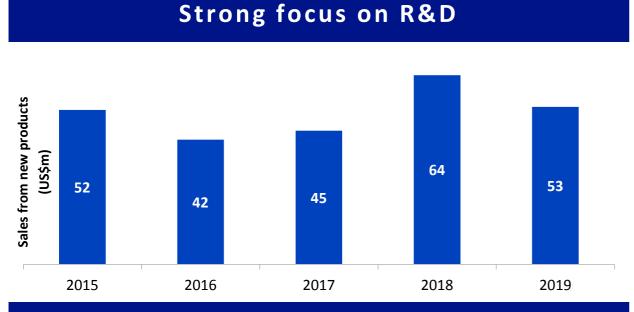




External

(a) Volume development adjusted for divested volumes

Technology Leadership at The Cutting Edge of Reinforcement



Selected collaborations(a)



(a) includes both, universities as well as individual academics from the names institutions

Cutting edge new products

- Rolling resistance improvements through higher modulus for high performance tires
- ✓ Protection layer for truck & bus tires; reduces tire weight
 - ✓ 7% higher tenacity and better fatigue performance for aircraft tires (bias)

4G PET ✓ 10% higher dimensional stability for better tire performance (improved labeling)

Leadership in Innovation and Technology

CDP Report

Twixtra[®]

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- that were carried out to manage risks and opportunities related to climate change.
 Kordsa participated in the International Content of
 - Kordsa participated in the International Concrete Fair – World of Concrete (WOC) 2020, one of the world's most prestigious fairs in the field of concrete

The Carbon Disclosure Project has raised Kordsa's score from C- to B in 2019 as a result of the efforts

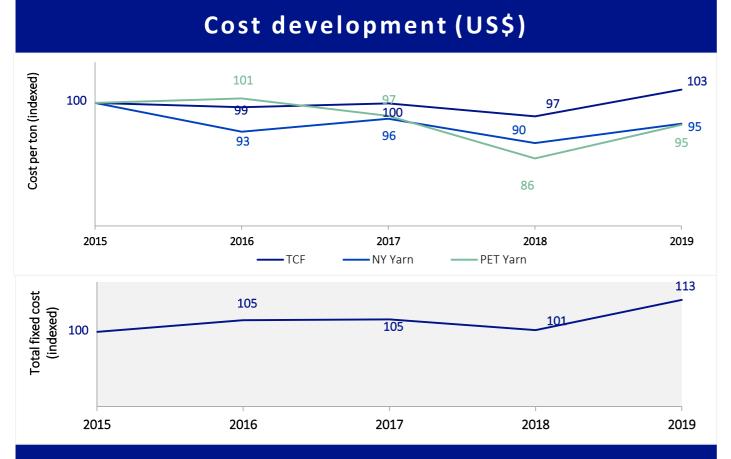
Brand Finance

Concrete

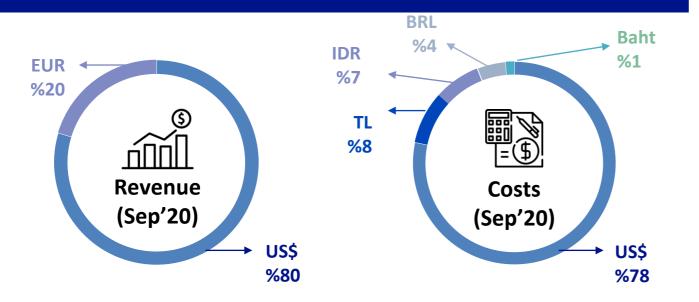
Kordsa was included as 50th place to 100 most
 valuable companies in Turkey by Brand Finance as



Well-Positioned for Strong Cash Generation and Dividends



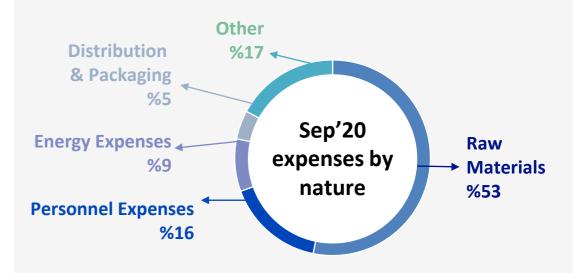
FX exposure



- Demonstrates value-based pricing model
- Ability to pass through raw material price volatility:

(Revenue – raw material costs) tracked as a KPI by sales team

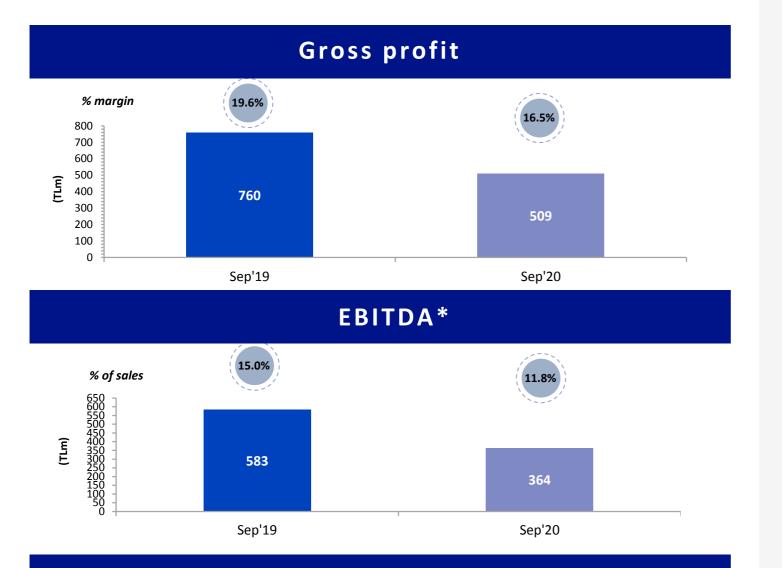
 Conversion costs as a key metric for management KPIs (main components are personnel expenses and energy costs)



- Hard currency revenues
- FX exposure on costs => EM footprint on local costs + hard currency priced raw materials
- Benefit from US\$ appreciation vs. TL, IDR and BRL



Well-Positioned for Strong Cash Generation and Dividends



Dividend distribution



Comments

- Price is a function of
 - Value Proposal of Product including services offered
 - Product type (nylon vs polyester or fabric vs yarn)
 - Raw Material Price Movement (formula based pricing with adjustment on raw material indexes)

• 10 yrs avg EBITDA margin 12,0%

- Target is progressive improvement in EBITDA margins over the medium term
 - Focus on value
 - Improved Total and per kg Fixed Cost
- Successful selling, general and administrative ("SG&A") cost reduction initiatives across all business units
- Positive contribution of new products and adjacent businesses



EBITDA* = Gross Profit – OPEX + Depreciation/Amortization

What we have for Sustainability















2018 INSPIRE AWARDS CORPORATE PUBLISHING COMPETITION Kordsa Teknik Tekstil A.S.

Sercom Consulting

Platinum Award for excellence within its Competition Class on the develop

yn Christine Kennedy





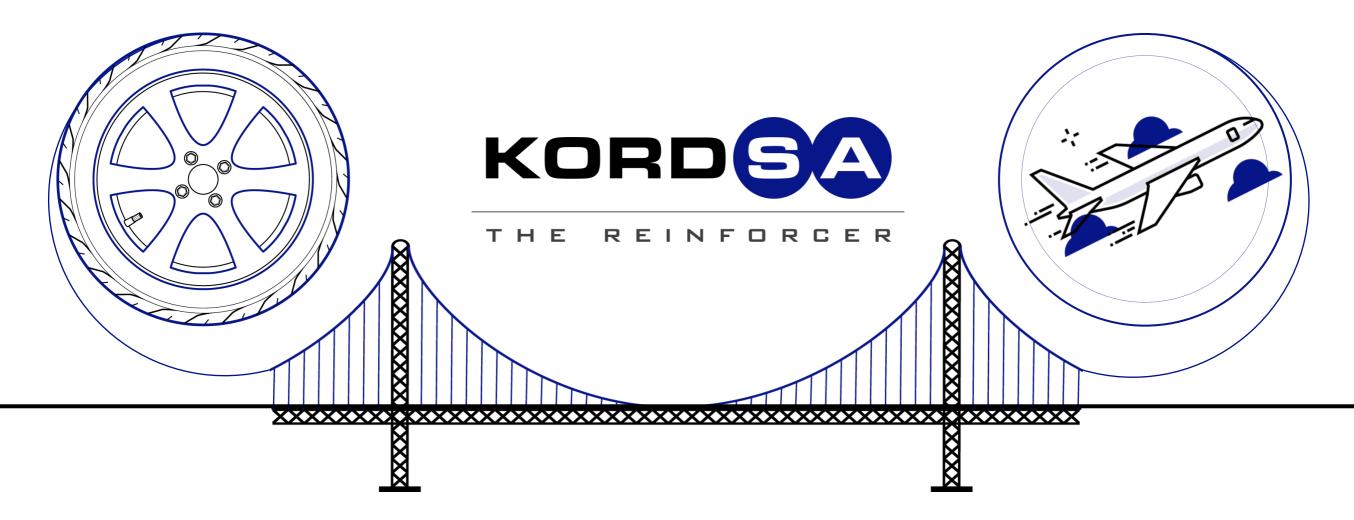




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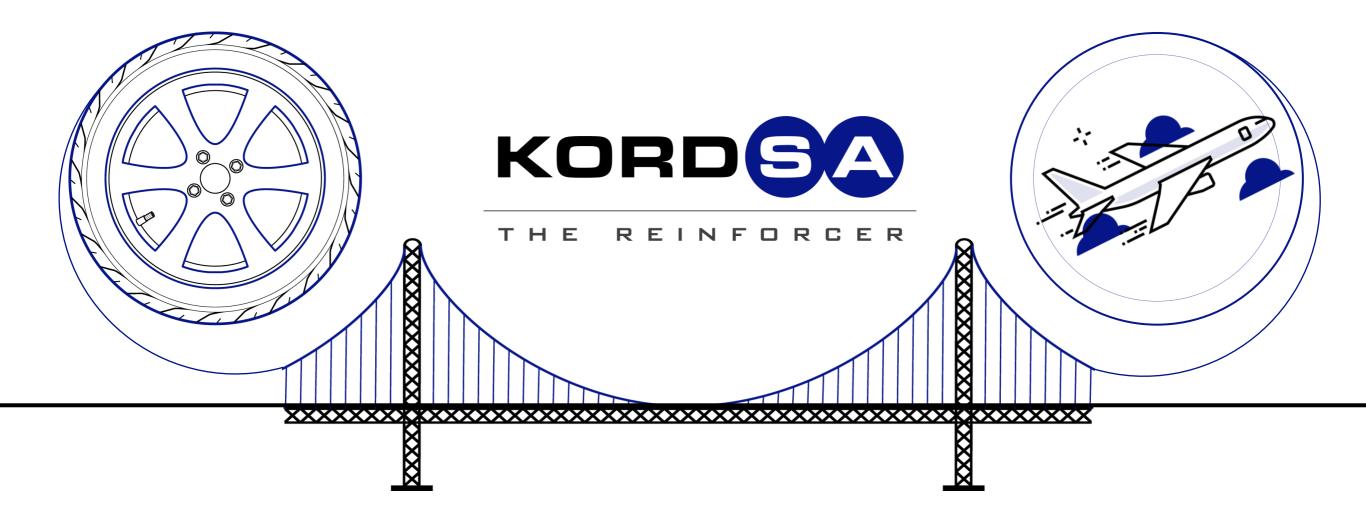
Kordsa's Financial Policy





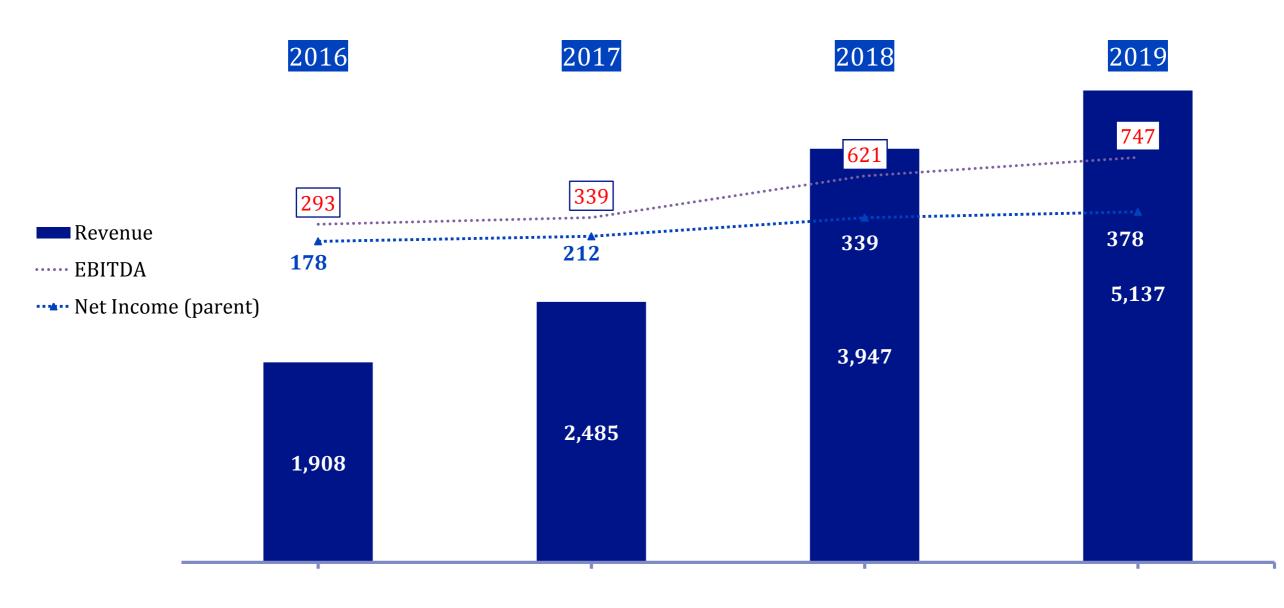
We Reinforce Life

Reinforcing 2 out of every 3 aircraft tires and 1 out of every 3 automobile tires produced in the world



Appendix

2016 – 2019 Financial Trend (MTL)





3Q 2020 Highlights (FX Rates)

